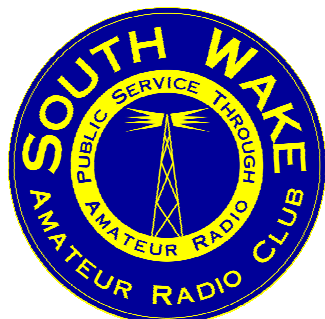




SWARCER NEWS

April 2009

SKYWARN TRAINING

Special Points of Interest

- Net nightly at 7:30 on the 147.195
- Tuesday night Net on 440 Linking system
- Next meeting:
May 4, 2009 at 7PM
FV Presbyterian Church,
307 N Ennis Street,
Fuquay-Varina

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Brandon Locklear from the National Service of Raleigh presented Severe Weather Spotter Training at the April club meeting Monday night. He gave us details about the program and how we as amateur radio operators can get involved and help provide needed information during severe weather conditions.

The following topics will be covered...

- Thunderstorm development and severity
- Recognition of storm/cloud elements
- Anticipating storm motion, intensity and severity based on cloud structure

Basic Spotter Training certificates were presented to attendees at the end of the program.



National Weather Service
Raleigh
(919) 515-9209
Severe Weather Hotline
1-800-444-7928
www.nws.noaa.gov/er/rah



Reports should include

- * When - Start time and, if possible, duration of event
- * Where - Location(s) of event (or path)
- * What - Types of severe weather observed

What to Report

Severe hail - penny size and larger
Wind Damage and/or winds in excess of 50 mph
Flooding (water covering roads / threatening property)
Funnel cloud
Wall Cloud
Tornado (try to specify location, motion and type of damage if known)

Hail Size Criteria (non-severe in <i>italics</i>)			
Description	Diameter(inches)	Description	Diameter(inches)
Pea	.25	Golfball	1.75
Half inch	.50	Hen Egg/Lemon	2.00
Penny	.75	Tennis Ball	2.50
Nickel	.88	Baseball	2.75
Quarter	1.00	Tea Cup	3.00
Half Dollar	1.25	Grapefruit	4.00
Silver Dollar	1.50	Softball	4.50

Estimating Wind Speed from Damage

26-38 kts (30-44 mph)	Trees in motion. Light-weight objects (lawn furniture) tossed or toppled.
39-49 kts (45-57 mph)	Large trees bend, small limbs break, a few larger dead or weak branches may break. Old/weak structures (sheds, barns) may sustain minor damage (roof, doors). Building partially under construction may be damaged. A few loose shingles removed from houses.
50-64 kts (58-74 mph)	Large limbs break; shallow rooted trees pushed over. Semi-trucks overturned. More significant damage to old/weak structures. Shingles, awnings removed; damage to chimneys and antennas; mobile homes, carports incur minor structural damage; billboard signs may be toppled.
65-77 kts (75-89 mph)	Widespread damage to trees with trees broken/uprooted. Mobile homes may incur more significant; be pushed off foundations or overturned. Roof may be partially peeled off industrial/commercial/warehouse buildings. Some minor roof damage to homes. Weak structures (farm buildings, airplane hangars) may be severely damaged.
78+ kts (90+ mph)	Large trees broken/uprooted. Mobile homes damaged; moderate roof damage to homes. Roofs partially peeled off homes and buildings. Moving automobiles pushed off dry roads. Barns, sheds demolished.

2009 ARRL FIELD DAY - JUNE 27-28

SouthWake A.R.C.'s First Inaugural Summer Field Day is just around the corner. This year we will be running as a 4-A and the location will be confirmed by May's meeting. The Field Day site is the W.E. Medlin Farm at 8514 Purfoy Road in Fuquay-Varina. So, if you're planning to attend, please be sure to attend our June meeting which will be on June 1, where we will be discussing the details.

This year's stations will be as follows:

AE4PC / KJ4FYX	40/80/(160)	SSB	Multi-band Wire
NC4RA	10/15/20	SSB	Tri-band Beam
KA0GMY	10-80	CW	Vertical
NC4MP	10-80	PSK	Multi-band Wire

With these four stations, everyone who wants to work a rig will be able to get some serious radio time in. If you're limited on time and would like to work a particular station, email me at rwavery@charter.net and I'll setup a relaxed schedule for each station. Otherwise come on out and if you see a station not occupied, jump in the drivers seat and help keep all our stations running for 24 hours straight. Make sure you have June 27 & 28 blocked out on your calendars and check the website, www.southwakearc.com for updates!

GET READY FOR FIELD DAY

Get Ready for ARRL Field Day 2009: The official 2009 ARRL Field Day Web page is up and running <<http://www.arrl.org/FieldDay>>. This page includes a summary of available resources, with links to Field Day forms and rules, logos and reference links. The page also includes a quick link to the map-based Field Day Station Locator where users can search for public Field Day sites. "Field Day is the largest on-the-air operating event," said ARRL Field Day Manager Dan Henderson, N1ND. "The event draws tens of thousands of radio amateurs to the airwaves over a single weekend." This year, Field Day is June 27-28. According to Henderson, it has become a tradition to create a new logo

each year to commemorate Field Day: "This year's logo evokes a sense of the 'great outdoors' in camp-like fashion. We hope the logo inspires even more participants to get active, get outdoors and get on-the-air." This year's logo was designed by ARRL Graphic Arts Supervisor Sue Fagan, KB1OKW, and Senior Technical Illustrator David Pingree, N1NAS. The Field Day page also includes a link for ordering commemorative Field Day T-shirts, hats, pins and other supplies. All of the items are available for ordering now; many of the items are already in stock. Radio clubs are encouraged to order early.

DEEP SOLAR MINIMUM

The sunspot cycle is behaving a little like the stock market. Just when you think it has hit bottom, it goes even lower. 2008 was a bear.

There were no sunspots observed on 266 of the year's 366 days (73%). To find a year with more blank suns, you have to go all the way back to 1913, which had 311 spotless days: [plot](#). Prompted by these numbers, some observers suggested that the solar cycle had hit bottom in 2008.

Maybe not. Sunspot counts for 2009 have dropped even

lower. As of March 31st, there were no sunspots on 78 of the year's 90 days (87%).

It adds up to one inescapable conclusion: "We're experiencing a very deep solar minimum," says solar physicist Dean Pesnell of the Goddard Space Flight Center.

For more details goto:

http://science.nasa.gov/headlines/y2009/01apr_deepsolarminimum.htm

DO YOU NEED AN AMPLIFIER?

Linear amplifiers may boost 100 watts output to the maximum legal limit of 1500 watts. But amplifiers can do nothing to improve reception of weak signals. A good antenna improves both transmitted and received signals.

Amplifiers should only be used in conjunction with a directional antenna up at least 60 feet in the air. Attempting to run high power into a dipole antenna right above the roof line will likely result in severe interference to home electronics,

and could raise RF exposure considerations to everyone and everything in your household.

One hundred watts output is plenty to work the world. Seasoned hams with tall towers and Yagis may consider the kilowatt advantage if they are serious about contesting or beating out a pileup to a distant station. The old adage, "If you can't hear 'em, you can't work 'em" is a good one—\$1,500 kilowatt amps usually go in place after the big 60-foot tower and antenna system go up.

FCC DENIES NEW YORK HAM'S REQUEST FOR PRB-1 RULING

(Please view hyper links for important information)

On March 27, the FCC notified Thomas Morrison, AB2PP, of Yonkers, New York, that it was denying his petition concerning an Amateur Radio antenna support structure Morrison had installed at his home <http://hraunfoss.fcc.gov/edocs_public/attachmatch/DA-09-680A1.pdf>. In his December 2008, petition, Morrison requested the Commission rule that the City of Yonkers did not provide "reasonable accommodation" in its building permit requirements per PRB-1 with regard to the installation of the support structure <http://www.arrl.org/FandES/field/regulations/PRB-1_Pkg/prb-1.pdf>.

This is the second time Morrison has sought assistance from the FCC in this matter. In 2006, he filed a request with the Commission asking for a declaratory ruling regarding the tower; the FCC denied his request in January 2007. "In that letter [denying your request]," the FCC reminded Morrison in its 2009 letter, "we explained that the Commission's PRB-1 decision requires that local regulation of Amateur Radio facilities must be the minimum practicable to accomplish the local authority's legitimate purpose, but permits the local authority to determine in the first instance what constitutes a 'reasonable accommodation' based on the its [sic] legitimate purposes, policies and concerns."

The Commission's 2007 letter also noted that the FCC does not have the resources to review all state and local laws that affect Amateur Radio operations and that local tribunals have authority to review local zoning decisions.

In his 2008 letter, Morrison told the Commission that since the FCC failed to act in his favor in his earlier petition, the Yonkers City Planning Board denied his request for a special use permit for his antenna support structure. The City of Yonkers has also indicted him for installing a tower without a building permit, a misdemeanor. Morrison also told the FCC that he has filed litigation in US District Court, requesting that it delay his criminal trial.

"We conclude that these intervening events do not affect our conclusion that, under the Commission's PRB-1 decision, you have not presented an appropriate matter for Commission involvement," the FCC told Morrison.

"Because your dispute with the City fundamentally involves whether its building code complies with PRB-1, and PRB-1 recognizes that local tribunals have the authority to handle appeals of local decisions regarding antenna structures, we believe that the matter you inquire about is in the appropriate forum. We therefore decline to act upon your petition."

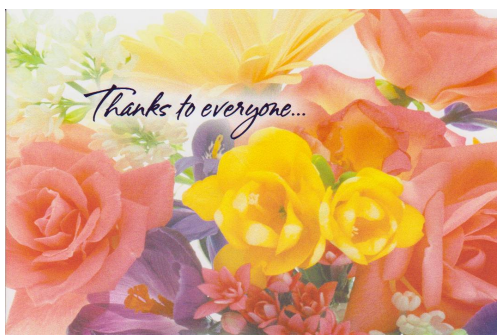
SILENT KEY

(Club member: Tim Kemp)

My dad, Tim Kemp WB4BAH passed away yesterday morning. I know that he had many friends in the amateur radio community that would want to know and I have no idea how to contact everyone. I'm hoping that you all can help to pass the word around.

The funeral service will be held on Sunday (03/15) at 2:00pm at Thomas Funeral Home located at 401 N. Ennis St. in Fuquay-Varina. Visitation will be at the funeral home from 1-2pm on Sunday.

Randy Kemp KI4BRZ



Dear Amateur Radio Friends,
Tim loved his radio friends. We have lost someone very special.
That was so nice of all of you.
Thank you so much for the beautiful flowers and the support.
God Bless All,
Thank you for sharing our sorrow.
Sincerely,
Sharon & Randy Kemp
George & Ann Kemp & Families

MINUTES OF THE APRIL MEETING BY KI4TFO JENNIFER AVERY

Meeting was called to order. A Motion was made to suspend the reading of the minutes because the secretary was not present.

RARSFest: Hank announced RARSfest coming up this weekend and that the tables were sold out.

NEWSLETTER: Please submit articles to Jim w4vcf@arrl.net or ideas about articles for the newsletter.

Thomas WW4TLB made a motion to have a flower fund for silent keys for club members in the amount of \$50 per incident. The Motion was passed. Tim Kemp was recently deceased and Thomas sent flowers from the club. A motion was made and passed to reimburse Thomas for the flowers. Thomas received a thank you card from the Kemp family.

UPCOMING EVENTS: Relay for Life in Holly Springs in May.

FIELD DAY: NC4RA Ryan asked for volunteers to go look for a field day site. Jim, Tim and Thomas and Ryan will meet to go look for sites.

James Stanley announced there that will be a slow speed

CW net on Tuesdays and Thursday at 9PM on 3.570 +/- QRM. He will be calling the net on Tuesdays and Hargrove will be calling it on Thursdays.

MEMBERSHIP: Currently we have 64 total members, 4 associates and 4 new members: WA4AZL Neil Little; K7BKX David Goodfellow; W2ISG Roger Mathison; and KJ4AEN Wesley Eason

TREASURER'S REPORT; Don reports a starting balance of \$1,277.95 minus \$100 donation to the church. We now have a balance of \$1,177.95.

NEXT MEETING: We will have grilled chicken and are asking people to bring sides. Please let Gino know by the Friday before the meeting if you will attend.

CONTEST: Steve KA0GMY announced a work all states contest this weekend. It will run for the next four weekends.

After the Club meeting was the SKYWarn Spotter Training Class.

Meeting was adjourned.

SWARC WAS CONTEST

The South Wake Amateur Radio Club Worked All States contest will start on April 11, 2009. This contest will run for 4 consecutive weekends and end on Sunday May 3, 2009.

See the South Wake Radio Club web site <http://www.southwakearc.com> for details.

DANNY HAMPTON, K4ITL IS DAYTON "AMATEUR OF THE YEAR"

The Dayton Hamfest has selected our own Danny Hampton, K4ITL, as "Amateur of the Year". Danny is the architect of the Piedmont Coastal Repeater Network, established in the early 1970s, which today sports more than 40 machines in North Carolina. The system is heavily used for public service work. Hampton has enhanced the network's utility with custom audio processing boards and RF components. The North Carolina Office of Emergency Management and

SKYWARN have recognized the network's vital role in emergency communications. Recently, Danny helped coordinate the development of the "CARES" system - a local hospital-based Amateur Radio emergency repeater system that ties 10 facilities together. A ham since 1958, Danny is the Southeastern Repeater Association (SERA) technical committee chairman as well as the ARRL North Carolina Section Technical Coordinator.

SWARC AT RARSFEST 2009 PICTURES BY JACK DONNELLY

The South Wake Amateur Radio Club purchased tables at the 2009 Rarsfest to represent the club. This provided a convenient location for the club members to gather and talk about the treasures that were found. A few members even got to sell some unneeded items which provided for some heavy pockets on the way home. A good time was had by all who attended and we will look forward to doing this again.



CQ MAGAZINE HF OPERATORS SURVIVAL GUIDE

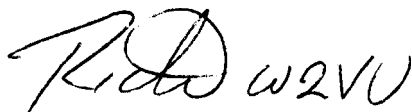
Dear Fellow Ham,

Welcome to HF, the Heart of Ham Radio! There's something special, something magical, about this little slice of the electromagnetic spectrum. Sure, you can talk long distances using satellite links or internet links, but they've never been able to replace the sense of accomplishment, the pure joy, the fun, of sending a radio signal out into the air and having it come back down a half a world away.

Traditionally, the greatest allure of the HF bands is "working DX," or talking to stations in faraway places. In addition, these bands give you plenty of opportunities for talking to other hams around our own country, and even to your local neighbors. But with ten bands to choose from, and conditions that vary with time of day, time of year and time of the sunspot cycle, getting started can be pretty intimidating.

Our goal with this guide is to help answer some of the most common questions about HF operating and to help you choose the best radio, antenna, and bands for making the contacts you want. For additional information, we encourage you to read *CQ* magazine every month, and to visit our website at <http://www.cq-amateur-radio.com>. But your best teachers are experience and your fellow hams. So get on the air, get involved with your local radio club, and most importantly— *have fun!*

73,



Rich Moseson, W2VU
Editor, *CQ* Magazine

HF: Your Window to the World

By John Dorr, K1AR

If you're like most new HF operators, you're ready to work those faraway "DX" stations but may not be sure where or when to find them. You're probably asking questions like:

- What is the best band to use for talking to Japan?
- Why can't I hear many signals on 80 meters during the day?
- Why does 20 meters go dead at night?

Let's take a crack at unraveling the confusion by walking you down the bands, starting with 10 meters. Remember that the portion of each band on which you have operating privileges (if at all) depends on your license class.

• 10 Meters (28.000-29.700 MHz)

The year 2007 will most likely mark the beginning of a new 11-year sunspot cycle. Right now, we're at the "solar minimum," and 10 meters is *not* the DX band it will be in four or five years. Even so, there are DX opportunities even now, mostly on a north-south path. Ten meters is generally a daytime band, "waking up" just after sunrise and "going to sleep" soon after it gets dark. Exception: during peak sunspot times, 10 meters sometimes stays open late into the night, offering some of the most exciting DX you can dream up.

CQ MAGAZINE HF OPERATORS SURVIVAL GUIDE (CONTINUED)

- **12 Meters (24.890-24.990 MHz)**

The 12-meter band, like 10 meters, offers tremendous opportunities to work stations worldwide during sunspot peaks, but without the crowding you sometimes find on 10. Although this band has been part of the ham frequency pool for some 20 years, few users actually have dedicated 12-meter antennas, creating a "level playing field" for most stations. And there's not a single serious DXpedition that doesn't cross paths with this band, making it the place that many people work rare operations for the first time.

- **15 Meters (21.000-21.450 MHz)**

The 15-meter band is a great alternative to 10 or 12 meters. Displaying similar propagation characteristics to its 10 meter cousin, 15 tends to open a little earlier and stay active a little later at night, with worldwide conditions possible around the clock during sunspot peaks. Even at the bottom of the cycle, though, 15 offers regular DX openings worldwide. You just have to work a little harder to catch them!

- **17 Meters (18.068-18.168 MHz)**

Conveniently situated between 15 and 20 meters, this band affords the advantages of both bands—long band openings and support for worldwide communications. Like its sister band, 12 meters, there's less QRM with good DX possible by using just an 80-meter dipole and an antenna tuner! Serious DXers have worked well over 300 countries on the band, which opens worldwide throughout the sunspot cycle. If you think it's exciting to hear Europe, Africa, Asia, and the Pacific at the same time, 17 meters is the place to be.

- **20 Meters (14.000-14.350 MHz)**

Over the years, 20 meters has been the yeoman band. Even at the bottom of the sunspot cycle, 20 always allows for communication across the country or the world. It's the most crowded DX band right now (and will be until 15 and 10 return from the solar doldrums), but there's little that's more exciting than talking to a Pacific Rim station "over the pole" in the morning, or experiencing a wide open band to Europe in the middle of the night.

- **30 Meters (10.100-10.150 MHz)**

This 50-kHz slice of spectrum is the only ham band that is limited exclusively to CW and data operation. Although it shares some low band characteristics (i.e., higher band noise, weaker long distance signals, etc.), the 200-watt power limitation on all stations affords tremendous DXing opportunities for those without amplifiers. Because of these limitations, 30 meters is often overlooked by other hams, making for small pile-ups (at times) with even the rarest of stations. And if you're just looking for a friendly QSO with someone in another state, 30 meters can be your friend for that, too.

- **40 Meters (7.000-7.300 MHz)**

As we head south on the frequency chart, 40 meters can offer fascinating HF operating opportunities. During daylight hours, 40 meters is a great band for communicating up to 1500 miles; while at night, the band comes alive with DX, although you'll have to slug it out with international broadcasters on the voice segment. Check out the band around your local sunrise and sunset—the best times to work faraway stations with modest antennas. And, remember that top DXers have worked over 300 countries on this band!

- **60 Meters (5 Channels at 5 MHz)**

This newest HF band is restricted to SSB only, on five discrete channels (see the frequency guide for specifics). It is shared with federal government users, who have priority. Propagation is similar to 80 meters, up to about 300 miles during the day, about 1000 miles around sunrise and sunset, and up to 3000 miles at night. But this is a ham band in very few places outside the U.S., so DX opportunities are limited.

- **80 Meters (3.500-4.000 MHz)**

This band is the best for working your local friends, especially at night. While you may be fooled by the sounds of a dead band during daylight hours, 80 meters comes alive at night. And don't be lulled into thinking that this is a only a "locals" band. While the challenge is greater (especially with noisy summer-time conditions), DXing is quite popular on this band, even with just a dipole! Winter nights are the best, especially during the low years of a solar cycle, with worldwide propagation available.

- **160 Meters (1.800-2.000 MHz)**

Mostly used for local nighttime QSOs, 160 meters—also known as "top band"—is a band filled with tradition proving ground for serious DXers who have risen to the challenge of working weak signal DX in the most difficult of conditions. It's best at solar minimum and in the winter.

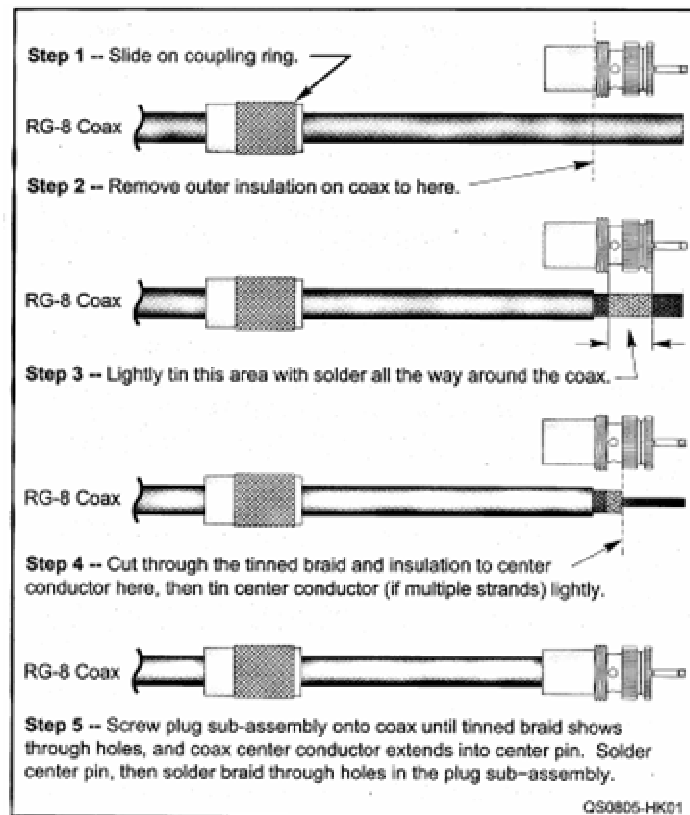
- **Discover Your Own Window to the World**

So, there you have it. HF operating is a mix of everything that's exciting about ham radio, whether your interest is the challenge of working every country or simply talking to a friend in the next state. Yes, experiencing HF operating truly is the key to discovering "your window to the world."

TECH TIP BY W4VCF JIM WILLIAMS

“NAVY TECH” Method to prepare PL-259 UHF connectors for RG-8 Coax

The figure shows the steps needed to install a PL-259 on an RG-8 sized coax. This method is very similar to that described in the ARRL Handbook, except that this method “eyeballs” the cutting dimensions using the PL-259 body as a measuring gauge.



SKYWARN INFORMATION NETS & UPCOMING EVENTS

As posted on <http://www.centralcarolinaskywarn.net/>

Every Tuesday at 9:15PM on the 146.88 repeater



CAROLINA HELPING HAMS

No events listed.

More details and sign-up information can be found on links from the Ham public service calendar at: www.hampublicservice.org



LINKS OF INTEREST



South Wake ARC Club website: <http://www.southwakearc.com/>

South Wake ARC Yahoo group: <http://groups.yahoo.com/group/southwakearc/>



Piedmont Coastal Repeater Network: <http://pcrn.net/>

Carolina 440 linked system: <http://www.carolina440.net/>



Central Carolina Skywarn: <http://www.centralcarolinaskywarn.net/>

SouthEastern Repeater Association: <http://www.sera.org/>



Wake County CERT: <http://www.wakecountycert.org/>

Wake County ARES/RACES: <http://www.wakeares.org/>



ARRL: <http://www.arrl.org/>

FCC Universal Licensing System: <http://wireless.fcc.gov/uls/index.htm?job=home>



Hamfest calendar: <http://k4hm.net/calendar.php>

NC Canine Emergency Response Team: <http://www.nccert.org/>



Capital Area Radio Testing Group: <http://www.cartgroup.org>

UPCOMING HAMFESTS AND CONVENTIONS

HAMPSTEAD, NC - Hampstead Swapmeet, sponsored by the Azalea Coast ARC.

The event will be held at the Holy Trinity Episcopal Church, 107 Deerfield Road, Hampstead, NC. Admission is free and the doors open at 8am. The swapmeet offers tailgating and a limited number of tables.

FCC VE exams will be offered and there will also be free coffee, donuts and biscuits while they last. Tickets will be sold for a chance at a Yaesu FT-2800M transceiver. For more info see www.ac4rc.org.

MORGANTON, NC - 12th Annual Catawba Valley Hamfest, Burke County Fairgrounds, 145 Bost Road, Morganton, NC.

The event starts at 8am and tickets are \$5. The grand prize is a Yaesu FT-897D transceiver and other prizes will be awarded.

VE testing will begin at 11am and Bingo at 9:30am. You can also get your QSL's checked for ARRL awards. The hamfest site has 35,000 sq ft of indoor dealer area as well as tailgating spaces. For more info see www.cvhamfest.org.

SOUTH WAKE AMATEUR RADIO CLUB

Address	Officers			
PO Box 1565 Fuquay-Varina, NC 27526	President:	Tim Ruffin	W4TAR	timruffin@earthlink.net
	Vice President:	Tommy Williams	KI4VSO	ki4vso@gmail.com
	Secretary:	Jennifer Avery	KI4TFO	jennavery@charter.net
	Treasurer:	Donn Harris	NC4DH	nc4dh@embarqmail.com
	Membership Director:	Dale Whitlock	AI4WF	ai4wf@nc.rr.com
	Director of Large:	Steve Mowels	KA0GMY	ka0gmy@bellsouth.net

Public Service Through Amateur Radio

South Wake ARC's primary purpose is to further the Amateur Radio Service through programs, activities, and education, in order to promote the radio knowledge, fraternalism and individual operating efficiency of our members. Further, it shall be our purpose to support the welfare of our community through public service including radio communications for emergency situations and public events, and through providing information, training, and assistance to individuals or organizations with an interest in the Amateur Radio Service.

2008 / 2009 MEMBER ROSTER

Full Members:

AA4XX Paul Stroud
 AE4PC Phil Cunningham
 AI4OZ Don Sharer
 AI4UP Vessie Whitlock
 AI4WF Dale Whitlock
 AJ4KZ Mark Womack
 K4HM Hank Montgomery
 K4ITL Danny Hampton*
 K4JDR Ronnie Casey
 K4MSE Dave Yow
 K4VJC Velda Callam
K7BKX David Goodfellow
 K9RII Jim Young
 KA0GMY Steve Mowels
 KA1CZI Stan Czyrnik
 KB4BLU Jim Staley
 KC4OVF Debbie Turlington
 KD4OKR Mike Ramsey
 KD4UJC Mike Callam
 KE4RUN Hargrove Davis
 KF4RDN Glenn Crissman
 KF4USQ Anna Crissman
 KG4HPE Patricia Babb
 KG4RMT Selene Montgomery
 KG4WFD Chris Caudle
 KH2TI Becky Wingfield
 KI4BRZ Randy Kemp
 KI4GNC Smokey Powell

KI4HDZ Grady Johnson
 KI4PMI Barry Emery
 KI4SHY Peggy Sharer
 KI4TFO Jennifer Avery
 KI4TWW Haley Whitlock
 KI4TWY Roy Avery
 KI4VSO Tommy Williams
 KI4WAI Harley Britton
 KI4YII Arthur Strong
 KJ4CXY Dennis Parker
 KJ4DNE Dan Britton
 KJ4DNS Ron Rasberry
 KI4YXO Gino Fernandini
 KJ4AEO Christy Fernandini
 KJ4FYX Jeremy Barnard
 KJ4GIZ David Whitehurst
 KJ4HNA David Caudle
 KJ4IHX Carl Sinclair
 NC4FB Fred Benson
 N4MRW Matt Wingfield
 NC4BJ "BJ" Jenkins
 NC4DH Donn Harris
 NC4MP Mark Perkins
 NC4RA Ryan Avery
 NC4XX Don Turlington
W2ISG Roger Mathison
 W2RDU John Fiorentino
 W4FXE Ken Medlin
 W4TAR Tim Ruffin

W4RJF Ronald Ford
 W4VCF Jim Williams
 WA2YBM Jack Donnelly
WA4AZL Neil Little
 WB4BAH Tim Kemp**
 WW4TLB Thomas Babb

63 Full Members
 4 Associate Members
 67 Total Members.

Associate Members:

Nancy Avery
 Gloria Mowels
 Philip Whitehurst
 Katie Whitlock

* Lifetime Member
 ** Silent Key
 New member since last newsletter